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DATE MAILED: 05/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/835,931	04/16/2001	Sven Lindfors	SEPP12.001AUS	3539
20995	7590 05/06/2003			
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR			EXAMINER	
			KUNEMUND, ROBERT M	
IRVINE, CA	92614		ART UNIT	PAPER NUMBER
			1765	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/835,931	LINDFORS ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication and	Robert M Kunemund	1765			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.			
1) Responsive to communication(s) filed on					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.				
3) Since this application is in condition for allowa closed in accordance with the practice under <i>E</i> Disposition of Claims	nce except for formal matters, p Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 153 O.G. 213.			
4) Claim(s) is/are pending in the applicatio	n.				
4a) Of the above claim(s) is/are withdraw	n from consideration.				
5) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.				
•					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accept					
Applicant may not request that any objection to the 11) The proposed drawing correction filed on					
If approved, corrected drawings are required in repl		ved by the Examiner.			
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 110/a	\ (d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	priority and 00 0.0.0. § 115(a)	r-(u) or (i).			
1. Certified copies of the priority documents	have been received				
2. Certified copies of the priority documents		on No			
Copies of the certified copies of the priorit application from the International Bure See the attached detailed Office action for a list o	ty documents have been receive	d in this National Stage			
14) Acknowledgment is made of a claim for domestic					
a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic	isional application has been rece	eived.			
Attachment(s)	. ,				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

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DETAILED ACTION

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 6, 13 to 38, 45 to 58 and 59 to 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leskela et al in view of Manasevit et al.

The Leskela et al reference teaches a method and apparatus for the atomic layer deposition process. The reference teaches the use of multiple sources in one system to create the desired deposition. The sources can be liquid solid or gas and an inert gas is used in the supply system. The gases are flowed to a substrate in pulses to deposit the layers, note entire reference. The sole difference between the instant claims and the prior art is the gas feed system. However, the Manasevit et al reference teaches a gas feed system for a multi source deposition process. There is means to supply the inert

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gases upstream and down stream from the source containers. There is a means to vent the gases prior to deposition and after deposition. The gases can be feed in pulse feeds, note figures. It would have been obvious to one of ordinary skill in the art to modify the Leskela et al reference by the teachings of the Manasevit et al reference to use the gases feed system of Manasevit et al in order to obtain a more uniform flows as set forth in the prior art.

Claims 7 to 12, and 39 to 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leskela et al in view of Manasevit et al.

The Leskela et al and Manasevit et al. references are relied on for the same reasons as stated, supra, and differ from the instant claims in the use of a purifier. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable means to clean the gases in the Leskela et al and Manasevit et al references in order to lower impurities in the deposited layers.

Response to Applicants' Arguments

Applicant's arguments filed February 14, 2003 have been fully considered but they are not persuasive.

Applicants' argument concerning the prior art of record is noted. However, the combined references teach the claimed apparatus. The Manasevit reference teaches the separate ad controllable inert gas line which clearly meets the apparatus limitations of the inert gas supply line as claimed. Applicants are arguing the operational differences between the claims and the prior art. However, the instant claims are drawn

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to an apparatus only, and thus the prior art must merely meet the apparatus limitations and be capable of the use. In the instant case the combination of Manasevit and Leskela et al teach the claimed apparatus deposition system and due to the values and bypasses in the references, the combined apparatus is clearly capable of being operated as shown in the specification.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 703-308-1091. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on 703-308-3636. The fax phone numbers for

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the organization where this application or proceeding is assigned are 703-305-3599 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

rmk May 2, 2003

PRIMARY EXAMINER